	Application No.	Applicant(s)
	10/765,302	MAEDA, NORIHIRO
Notice of Allowability	Examiner	Art Unit
	Paul Ip	2837
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	orrespondence address olication. If not included will be mailed in due course. THIS
1. This communication is responsive to the application filed on	<u>n 1/27/2004</u> .	
2. The allowed claim(s) is/are 1.		
3. The drawings filed on are accepted by the Examiner	7.	
 4. Acknowledgment is made of a claim for foreign priority unappriority and a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the post of the post o	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	Office action of high section of the back) of d). nust be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/27/04) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	e

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Claim 1 has been carefully considered with a given meaning for all limitations recited in the claim in terms of "means plus function" and in view of the specification of the invention under 35 U.S.C. 112, sixth paragraph.

The patent/publication to Murakami (6,831,432 or 2003/0102833) discloses motor driving device and motor driving method. The brake mode switching signal production means detect the number of revolution per unit time of a rotor according to a change in a positional relationship between motor windings of a plurality of phases and the rotor so as to output first and second brake mode switching signals for selecting either a short brake mode or a reverse brake mode for braking the rotation of the rotor based on the number of revolutions. Whereas, claim 1 of the invention requires "a plurality of comparing means" for comparing a terminal potential of each of the multi-phase windings with a middle potential of the multi-phase windings, and "driving timing signal generating means" for generating a timing signal for outputting each of the output signals based on a result of the comparison carried out by each of the comparing means; and" rotation number detecting means" for detecting the number of rotations of the electric motor based on the result of the comparison obtained by the comparing means, wherein when the rotation of the electric motor is to be stopped, the driving timing signal generating means is controlled to apply "a reverse rotation brake" until the number of rotations of the electric motor is reduced to be a predetermined number of rotations by the rotation number detecting means, and the driving timing signal generating means is then controlled to apply "a short brake" until the rotation of the electric motor is stopped. Claim 1 is interpreted in view of the specification and figure 1 of the invention. The plurality of comparing means, driving timing signal generating means, and rotation number detecting means are structural different from Murakami. Furthermore, Murakami teaches or suggests to output first and second brake mode switching signals for selecting either a short brake mode or a reverse brake mode for braking the rotation of the rotor. Whereas, claim 1 requires when the rotation of the electric motor is to be stopped, the driving timing signal generating means is controlled to apply a reverse rotation brake until the number of rotations of the electric motor is reduced to be a predetermined number of rotations by the rotation number detecting means, and the driving timing signal generating

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means is then controlled to apply a short brake until the rotation of the electric motor is stopped. Murakami is neither taught nor suggested the "means plus function" as recited in claim 1 of the invention.

The references of the record disclose motor reverse or braking control of the motors. The references of the record fail to teach or suggest the means plus function as recited in claim 1 of the invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

DRAWINGS

2. New corrected drawings in compliance with 37 CFR 1.121(d) is required in this application because the drawings filed on 1/27/2004 are informal drawings including foreign language. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

COMMUNICATION INFORMATION

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Ip whose telephone number is (571)-272-1941. The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin, can be reached on (571)-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Ip

Primary Examiner

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